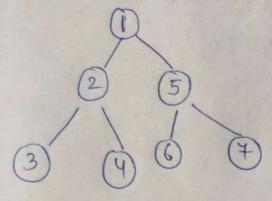


## # Preorder Portordor of Inorder on One Traversal:-



Inorder -> 3 2 41 6 5 7

Postorder -> 3 4 2 6 7 5 1.

On 1st Ptoration (num=1), -preorder -1 (1,1) be comes (112)-1[check 94

well have I there exist left ]

On mext 910 aron take value (2,1) of num = 1

-foreord or + (212)

check left of 2 repeat same

(312) morder.

(3,3) - postorder.

Stack (node, num)

of (num = = 1) -preorder

left.

of (num == 2) morder nght

Pf (num=3)

postorder

In this way the process repeats, of (left/right) exast then num resets to 1 else 9t ancreases

```
# Code:-
rector kny pre In Post Traversal (Tree Node * 70)
      stack < pour < Treentode * , 9nt775t;
     st. push ({ root, 13);
  vector canty pre, arr, post;
      B+ (root == NWLL) return;
      while (! st.empty()) }
           auto ?t = st. top();
           st. pop();
     of (9t. second==1){
         fore.push_back (9t@ffr87-) val);
         9t-se cond++;
         st. push (9t);
         of (87. forst-yeeft) = NULL) }
              8t. push (29t. 1987-7 left, 13);
              part of pre and 1 to 2
               pushing lest side d'tre mee
    else of (9t. second = = 2) }
         9n. push -back (9t. frost -yval);
         9t. second++;
        st. push (9t);
       9f( Pt. from -) right!=NULL) {
           st. push (fit-first-right, 13);
             pre enc 2 to 3
             right
 a don't push
   else q
     -post, pum back (it. first + val):
```